



Water Treatment Chemicals

Genesys Reverse Osmosis chemicals have been specifically designed to improve the all round performance of Reverse Osmosis Plants enabling them to operate efficiently even in areas where feed waters are challenging.

General details of the products available are as follows. Detailed specifications and application information being available on request:-

Chemical	Application	Description
Genefloc PWF Flocculant Packaging: 25Kgs	Improved performance of RO pre-filtration equipment	A general purpose flocculant PolyDADMAC for use in surface, well and process waters with medium to high SDI values. Genefloc PWF should be dosed continuously to feed water allowing at least 5 minutes contact time before filtration. Typical dose rate of Genefloc PWF is 2-5mg/l.
Genesol 20 Packaging: 5Kg	Reverse Osmosis Powder Membrane Preservative	Genesol 20 is a powdered membrane preservative for MF/UF and NF/RO systems. It enables membrane storage in-situ – thus avoiding costly shipping, off site preservation & storage – while also reducing the potential for biological growth in ancillary equipment. Genesol 20 is a safe & effective solution to ensure for long-term preservation of membrane systems without loss of performance. Genesol 20 should be used as a 2% solution using permeate only and is to be recirculated for at least 15min before the shutdown. After storage, rinse the membranes for 30 mins with permeate before resuming operation.
Genesol 37 Packaging: 25Kgs	Reverse Osmosis Low pH Membrane Cleaning	An inorganic strongly acidic cleaner effective for removal of inorganic scale and iron deposits in Reverse Osmosis and Nano-filtration membrane systems. Genesol 37 is highly effective when used as a 1-2% solution and alternately soaked and recycled through the membrane system for 1-2hours. At this concentration, its self-adjusting pH ensures highest solubility of iron deposits, inorganic scales and proteinous deposits.
Genesol 38 Packaging: 25Kgs	Reverse Osmosis Low pH Membrane Cleaning	An inorganic scale cleaner and iron deposit remover for use in Reverse Osmosis and Nano-filtration membrane systems. Used at the right concentration, its self-adjusting pH ensures highest solubility of iron salts is achieved. Genesol 38 is highly effective when used as a 3-4% solution and alternately soaked and recycled through the membrane system for 4-6hours.
Genesol 80 Packaging: 25Kgs	Reverse Osmosis, Nano-filtration and Ultrafiltration Membrane Cleaner - Targets Biofilm	A highly effective biofilm cleaner for Reverse Osmosis, Nano-filtration and Ultrafiltration membrane systems.. Biofilm predominantly consists of materials secreted by bacteria under stress. Genesol 80 can be used offline as part of the normal membrane CIP procedure at a concentration of 2% v/v. It can also be applied continuously online with a dose rate of 10-40mg/l depending on the severity of the biofouling or on intermittent basis every 4-8 hours at 10-80mg/l to inhibit biofilm formation and maintain a clean membrane surface.
Genesys 703 Packaging: 25Kgs	Reverse Osmosis High pH Membrane Cleaning	A general-purpose cleaner for organic based foulants found in Reverse Osmosis and Nano-filtration membrane systems with particular application in removal of aluminium silicate. It is highly effective at a solution of 1-2% at the maximum allowable pH recommended by the membrane manufacturer and should be alternately soaked and recycled through the membrane system for 4-6 hours. Cleaning with warm solutions is advised for improved efficiency. After cleaning, the membrane system should be thoroughly flushed out until the pH values of the feed and discharge are the same.
Genesys 704 Packaging: 25Kgs	Reverse Osmosis High pH Membrane Cleaning (Microbubble technology)	A general-purpose cleaner for a wide range of organic based foulants found in Reverse Osmosis and Nano-filtration membrane systems. Genesol 704 is particularly effective against aluminium silicate, which can be difficult to remove with conventional cleaners. It is also effective against most micro-organisms such as bacteria, fungi and algae. Genesol 704 should be used as a 1-2% solution at the maximum allowable pH recommended by the membrane manufacturer. It should be alternately soaked and recycled through the membrane system for 2-4 hours.
Genesys LF Packaging: 25kg	Reverse Osmosis Antiscalant Pre-Treatment	A broad spectrum liquid antiscalant for use in Reverse Osmosis and Nano-filtration systems. It is effective at preventing inorganic scale, particularly calcium carbonate, iron and silica thus reducing the frequency of membrane replacement and cleaning. Genesys LF should be dosed continuously to the feed water upstream of the cartridge filters. Typical dosage rates are 2-5 mg/l.
Genesys SI Packaging: 25kg	Reverse Osmosis Antiscalant Pre-Treatment	An antifoulant for use in Reverse Osmosis and Nano-filtration systems operation on high silica feed-waters. Genesys SI is also effective against all common scale forming salts such as calcium carbonate, calcium, barium and strontium sulphate. Genesys SI should be dosed continuously to the feed water upstream of the cartridge filters. Typical dosage rates are 2-5mg/l.
Genesys RC Packaging: 25kg	Reverse Osmosis Antiscalant Pre-Treatment	A broad spectrum antiscalant and antifoulant for use in small and recycling Reverse Osmosis and Nano-filtration systems with less than 100m ³ /day of feed water flow. Genesys RC is effective at preventing all inorganic scale formation thus reducing the frequency of membrane cleaning and replacement. Genesys RC allows systems to be designed and operated at higher recovery rates. Genesys RC should be dosed continuously to the feed water upstream of the cartridge filter. Typical dosage rates are 7-15mg/l.